

CLAIMS

1 1. Device for introducing solid pharmaceutical products into blister packs
2 (3), in which the pharmaceutical products to be packaged such as tablets (T), two-part capsules
3 (S), sugar-coated pills (D), gelatin capsules (G), and oblongs (O) can be introduced by a
4 distributing device (6) from a pan (2) into an isolating block (7) and through isolating channels
5 (8) to the individual wells (4) of the blister pack (3),
6 characterized in that

7 -- the distributing device (6) is made up of rolls (11) supported rotatably in a roll frame
8 (10), where at least one pair of rolls consisting of a first roll (11a) and a second roll (11b) is
9 provided, and where the first rolls (11a) and the second rolls (11b) rotate in opposite
10 directions; in that

11 -- the rolls (11a, 11b) have noncylindrical sections (15, 31); in that

12 -- the rolls (11a, 11b) are arranged so that a gap (35) is present between the
13 noncylindrical sections (15, 31) of the rolls (11a, 11b) of a pair of rolls (11a, 11b), which gap
14 is slightly larger than the thickness of the pharmaceutical products (T, S, D, G, O); and in that

15 -- the rotational direction of the rolls (11a, 11b) is such that the lateral surfaces of the
16 noncylindrical sections (15, 31) which face each other move upward as seen from the gap (35).

1 2. Device according to Claim 1, characterized in that the noncylindrical
2 sections (15, 31) have a conical shape, where the angle of the conical sections (15, 31) of the
3 first rolls (11a) is opposite the angle of the conical sections (15, 31) of the second rolls (11b),
4 so that the gap (35) is of uniform width in the area of the conical sections (15, 31).

1 3. Device according to Claim 1, characterized in that the noncylindrical

2 sections (31) have the form of a segment of a parabola.

1 4. Device according to Claim 1, characterized in that the noncylindrical
2 sections (31) have a hyperbolic form.

1 5. Device according to one of Claims 1-4, characterized in that the distributing
2 device (6) has several pairs of first rolls (11a) and second rolls (11b).

1 6. Device according to Claim 5, characterized in that a cover frame (12) is
2 positioned above the arrangement of the pairs of rolls (11a, 11b), which frame has webs (13),
3 which are parallel to the axes of the rolls (11a, 11b) and cover the space between the first roll
4 (11a) of one pair of rolls (11a, 11b) and the second roll (11b) of the adjacent pair of rolls (11a,
5 11b).

1 7. Device according to Claim 6, characterized in that the webs (13) have a
2 triangular cross section, where one vertex is at the top and the two other vertices are at the
3 same level at the bottom, so that each web (13) has slanted surfaces on both sides, along which
4 the pharmaceutical products (T, S, D, G, O) slide down in such a way that the only route
5 which they can take is between a first roll (11a) on the right and a second roll (11b) on the left
6 in the direction toward the gap (35).

1 8. Device according to one of Claims 1-7, characterized in that the rolls (11a,
2 11b) are motor-driven.

1 9. Device according to one of Claims 5-8, characterized in that a single
2 motorized drive is provided, which drives all of the rolls (11a, 11b) by way of a belt (22).

1 10. Device according to one of Claims 5-8, characterized in that the rotational
2 speed of the first rolls (11a) is different from that of the second rolls (11b).

1 11. Device according to Claim 10, characterized in that the first rolls (11a) are
2 driven in common by a first motorized drive, and in that the second rolls (11b) are driven in
3 common by a second motorized drive.

1 12. Device according to Claim 10, characterized in that the difference between
2 the rotational speeds of the first rolls (11a) and the second rolls (11b) is produced by providing
3 the first rolls (11a) and the second rolls (11b) with different diameters at the ends with the
4 annular grooves (21) in which the belt (22) engages.